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Owner's Manual

8 Port KVM Switch with On-Screen Display (OSD)

Model #: B007-008

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NOTE: Follow these installation and operating procedures to ensure correct performance and to prevent damage to this unit or to its connected devices.

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Introduction

This KVM Switch allows access to multiple PCs from a single console (keyboard, mouse, and monitor). Control up to 8 PCs or cascade to control up to 512 PC's from a single keyboard/monitor/mouse console.

This 8-Port KVM Switch provides three convenient methods to access any PC connected to the system:

1. Using the port selection switches located on the front panel of the unit
2. Entering *Hot Key* combinations from the keyboard
3. Using the menu driven OSD (On Screen Display) feature.

A powerful *Quick View Scan Mode* feature allows you to auto scan and monitor the activities of all operating PCs on the installation one by one.

Features:

- Cascade KVMs to Control Up to 512 PCs from a Single Console
- No Software Required - PC Selection done via Front Panel Switches, *Hot Keys*, or OSD (On Screen Display)
- Quick View Scan Mode for Monitoring Selected PCs
- PS/2 and Serial Mouse Emulation Provided for System Bootup
- Console's PS/2 Mouse Controls All Connected PCs - Even Those with Serial Mice
- Microsoft Intellimouse Pro, Logitech FirstMouse, FirstMouse+, Support*
- SVGA, VGA and Multisync Monitor Support
- LED Display for Easy Status Monitoring
- Rack Mountable in 19" System Rack
- Hot Pluggable - Add or Remove PCs for Maintenance Without Powering Down the Switch
- Superior Video Quality: 1920x1440; DDC2B.

* 1. PS/2 compatible mouse support is for three button (wheel) mice.
2. The Change Device procedure in the Logitech Mouse Ware program does not work in Microsoft NT.

Hardware Requirements:

Console

- A VGA, SVGA, or Multisync monitor capable of the highest resolution that you will be using on any of the PCs.
- A PS/2 Style Mouse
- A PS/2 Style Keyboard

PC

Each PC must have:

- A VGA, SVGA or Multisync card.
- Either a 6-pin mini-DIN (PS/2 style) or DB-9 (standard serial) mouse port.
- Either a 6-pin mini-DIN (PS/2 Style) keyboard port with +5V DC on pin 4 and Ground on pin 3, or a 5-pin DIN (AT Style) keyboard port with +5V DC on pin 5 and ground on pin 4.

Cables

The following are the cables to connect your KVM Switch to the CPUs or to Cascade KVM Switches:

P753-006 PS/2 Cable Kit–6'

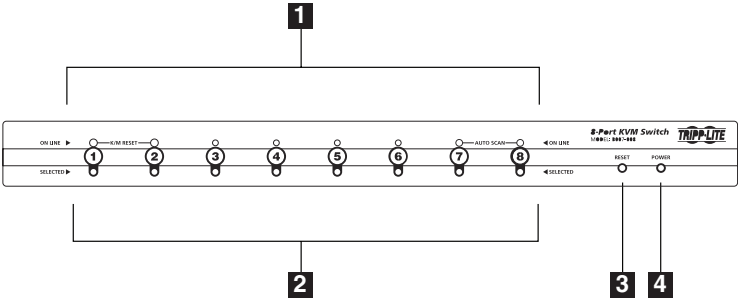
P753-010 PS/2 Cable Kit–10'

P753-015 PS/2 Cable Kit–15'

Note: The wiring and pin assignments will not let you to use a Serial-to-PS/2 adapter at the KVM side of the cable. Attempting to use a standard serial extender cable with adapters at both ends will fail.

Controls and Connections

Front View:



1 Status LEDs:

On Line:	Lights ORANGE when the attached PC is ON. A flashing LED indicates that that port is being used as a cascade port and has another KVM Switch connected to it.
Selected:	Lights GREEN to indicate which port is currently selected. The LED will be flashing when the port is being accessed under the Auto Scan Mode.

2 Port Selection

Switches Press a switch to access the PC attached to the corresponding port.

- Pressing Port 1 and Port 2 simultaneously for 3 seconds performs a Keyboard/Mouse Reset
- Pressing Port 7 and Port 8 simultaneously starts the Auto Scan Mode

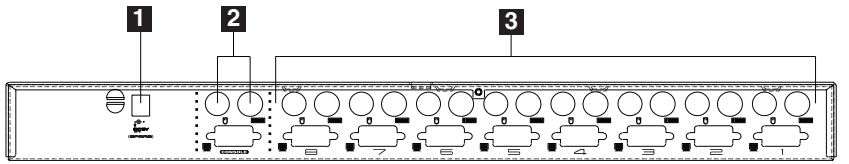
3 Reset Switch

The recessed reset switch can be pressed using a thin object such as a paper clip or ballpoint pen. A warm reset is initiated when this switch is pressed and released. A cold reset is initiated when this switch is kept pressed for longer than 3 seconds.

4 Power LED

Lights to indicate that the unit is receiving power.

Rear View:



1 Power Jack

The optional power adapter plugs in here. The switch is designed to be non-powered (no external power required). It draws the necessary power from the connected CPUs through the Keyboard/Mouse connection. External power is required when units are cascaded, or if the CPUs do not providing sufficient power (operation will be erratic).

2 Console Port Section

- If this is a single KVM or a first station, your monitor, keyboard and mouse plug in here.
- If this is a second or third level station (cascaded unit), the cables that connect to the upper level KVM connect here.

3 CPU Port Section

The cables from the PCs plug in here.

Installation:

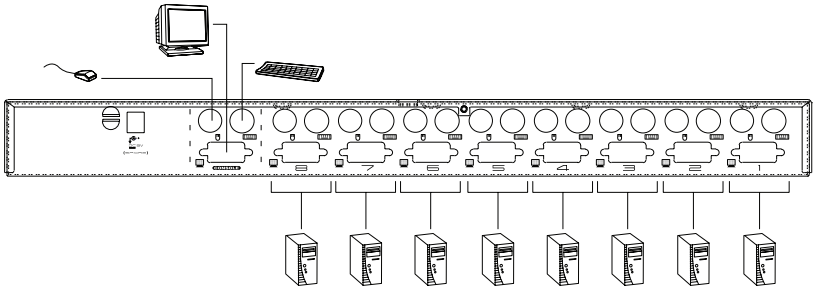
Make sure that power to all the devices (KVM Switch and PCs) you will be connecting up have been turned off.

Single Station Installation

The most basic installation is a Single Stage installation, in which no additional KVMs are connected to the first unit. To set up a single stage installation:

1. Plug the monitor, keyboard, and mouse into the Console ports
2. Use connector cable sets (listed in the *Hardware Requirements* section) to connect each PC's monitor, keyboard and mouse ports to one set of the KVM ports.
3. If you choose to use external power, connect the supplied adapter to the power socket on the KVM switch and then plug the adapter into an AC power source. The unit is designed for non-powered operation in a single stage installation (it draws power from the computers via the keyboard and mouse cables). If a computer only supplies 3.3V of power for the keyboard and mouse instead of 5V (as in the case of Notebooks), you will need to use the external power adapter.

   Note: If you choose to use external power, the unit must be plugged in and receiving power prior to Step 4.
4. Turn on the power to the PCs.



Two-Stage Installation

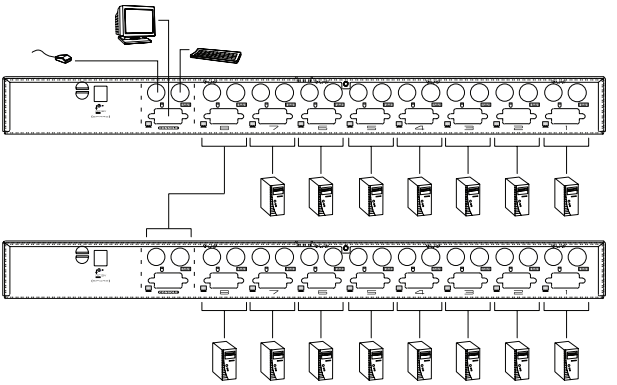
Additional B007-008 KVMs can be connected to the CPU ports of the First Stage KVM to control more CPUs. These cascaded KVMs are considered Second Stage units. As many as 64 PCs can be controlled in a complete two-stage installation. A table showing the relationship between the number of PCs and the number of KVMs needed to control them is provided in the Appendix.

To set up a two-stage installation, do the following:

1. All KVM Switches and PCs must be turned off – including preexisting devices on the installation.
2. Use a cable kit (see *Hardware Requirements* section) to connect the Console Port connectors of the Second Stage KVM unit to any available CPU Port on the First Stage unit.
3. Use connector cable sets (see *Hardware Requirements* section) to connect the monitor, keyboard and mouse ports of the PCs to any available CPU Port on the Second Stage unit
4. Plug the power adapter into the Power Jack on the second stage KVM and then plug the adapter into an AC power source.
5. Repeat steps 2 - 4 for any other Second Stage units you wish to connect.
6. Plug in the power adapter for the First Stage KVM Switch unit and then plug the adapter into an AC power source.
7. Connect any other CPUs to the remaining ports on the First Stage unit.
8. Turn on the power to all the connected PCs.

   Note: The Power On sequence requires that all Second Stage units be powered on first (AC Adapter connected). After all the Second Stage units have been powered on, then the First Stage unit must be powered on next (AC Adapter connected). After the Second and First stage units have been powered on, the computers can be powered on.

Installation:



Three-Stage Installation

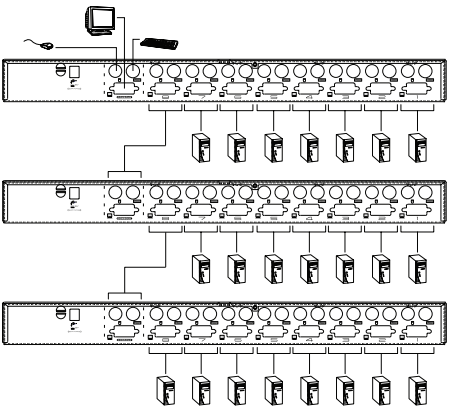
The procedures for setting up a Three-Stage installation are essentially the same as for a Two-Stage installation. Up to 512 PCs can be controlled in a complete Three-Stage installation. A table showing the relationship between the number of PCs and the number of KVM Switch units needed to control them is provided in the Appendix.

Note: KVM Switch units cannot be cascaded beyond the third level.

To set up a three-stage installation, do the following:

1. All KVM Switches and PCs must be turned off – including preexisting devices on the installation.
2. Use a cable kit (see Hardware Requirements section), to connect from the Console Port connectors of the Third Stage KVM Switch unit to any available CPU Port on the Second Stage unit.
3. Use cable kits (see Hardware Requirements section), to connect the monitor, keyboard and mouse ports of the PCs you want to control to any available CPU Port on the Third Stage unit, as shown in the diagram below.
4. Plug the power adapter into the Power Jack on the Third-Stage KVM.
5. Repeat steps 2 - 4 for any other Third-Stage units you wish to connect.
6. Plug in the power adapters for all the Second-Stage KVM Switches.
7. Plug in the power adapter for the First Stage KVM Switches.
8. Turn on the power to all the connected PCs.

Note: A KVM switch is powered on when it is connected to the AC via the power adapter. The Power On sequence requires that all Third Stage units be powered on, then all Second Stage units must be powered on and finally all First Stage unit must be powered on. The computers can be turned on once all the KVM Switches have been powered on.



Operation

Hot Plugging

Components can be removed and added back into the installation by unplugging their cables from the unit's ports without the need to shut the switch down. The following procedures must performed in order for hot plugging to work:

- **Hot Plugging CPU Ports:**

  When hot plugging cables from the CPU ports:

  1. The cable must be plugged back into the same port it was removed from.
  2. The mouse cable must be plugged in before the keyboard cable.
  3. After plugging the cable back in, you must perform a KVM Reset on the First Stage unit by pressing the Reset switch.

- **Hot Plugging Console Ports:**

  When hot plugging the mouse from the KVM Switch's console mouse port:

  1. The mouse may be removed and replaced (to reset the mouse, for example), as long as it is the same mouse.
  2. If you plug in a different mouse, all the stations and all the computers must be shut down for 10 seconds, then restarted.

- **Keyboard and Mouse Reset:**

  If there is no response to mouse and/or keyboard input after hot plugging (or at any other time), simultaneously press and hold Port Select buttons 1 and 2 on the First Stage unit for 3 seconds to perform a Keyboard and Mouse reset.

Powering Off and Restarting

If it is necessary to Power Off one of the KVM Switches, do the following before starting it back up:

1. Shut down all the computers that are attached to it, as well as all the stations and all the computers that are daisy chained down from it (all the child stations and the computers attached to them).

Note: 1. Unplug the power cord of any PC (connected to that KVM) that has the Keyboard Power On function.
2. If the unit is operating under external power, unplug the power adapter cable.

2. Wait 10 seconds, then restart the KVM Switch, starting with the last station in the chain and working back to the station you originally shut down.
3. After the Switches are up, power ON the PCs, starting with the ones attached to the last station in the chain and working back to the station you originally shut down.

Note: It is not necessary to shut down and restart any of the stations or computers above the station you powered off.

Port Selection

Controlling all the PCs connected to the Switch is very easy. The following three methods can be used:

- **Manual**

  Simply press the appropriate port selection switch on the unit's front panel. The Selected LED will light to indicate that the port is selected. The On Screen Display (see OSD section) automatically switches to highlight the PC selected.

  Note: On a cascaded installation, you must press the Port Selection switch on the KVM Switch that connects directly to the PC you want to access.

- **Hot Key**

  Press the Left [Ctrl]+[Alt]+[Shift] or Right [Ctrl]+[Alt]+[Shift] keys sequentially; key in the Port ID number (see Port ID Numbering, section for details); then press [Enter].

- **OSD**

  Press either Left [Ctrl] or Right [Ctrl] twice to access the OSD Main Menu. Either:

  - Invoke the Hotkey Function by pressing the Left [Ctrl]+[Alt]+[Shift] or Right [Ctrl]+[Alt]+[Shift] keys sequentially; key in the Port ID (see Port ID Numbering section for details) and then press [Enter], or
  - Use the Arrow Keys to move the Highlight Bar to the port you want; then press [Enter]

  Note: You can change the Hotkey to access the OSD Main Menu to the Scroll Lock Key (see section titled F6), in which case you press [Scroll lock] twice (instead of [Ctrl] twice).

Port ID Numbering

Each CPU Port on an installation is assigned a unique Port ID. You can directly access any computer on any level of the installation by specifying the Port ID using the Hot Key port selection method, or from the OSD Main Menu.

The Port ID is a one, two or three digit number. It is determined by the path taken from the first stage through any additional stages in order to reach that CPU. The first digit represents the CPU Port number of the First Stage unit; the second digit represents the CPU Port number of the Second Stage; the third digit represents the CPU Port number of the Third Stage.

1. A CPU connected to a First Stage unit:

   The Port ID is a single digit corresponding to the port where the CPU is connected.

2. A CPU connected to a Second Stage unit:

   The Port ID has two digits. The first digit corresponds to the port where the Second Stage unit is connected. The second digit is the Port ID on the Second Stage unit where the CPU is connected. For example, a Port ID of 23 refers to a CPU that is connected to Port 3 of a Second Stage unit that, in turn, is cascaded down from Port 2 of the First Stage unit.

3. A CPU connected to a Third Stage unit:

   A computer attached to a Third Stage unit has a three digit port ID. The first digit corresponds to the port on the First Stage, the second digit to the port on the Second Stage and the third digit to the port on the Third Stage. For example, a Port ID of 241 refers to a CPU that is connected to Port 1 of a Third Stage unit, that is cascaded down from Port 4 of a Second Stage unit, which, in turn, is cascaded down from Port 2 of the First Stage unit.

Hot Key Operation

Hot Key Navigation

Hot Key navigation allows you to access connected PCs directly from the keyboard.

To select a port with the Hot Key method, press the Left [Ctrl]+[Alt]+[Shift] or Right [Ctrl]+[Alt]+[Shift] keys sequentially and enter the CPU's unique Port ID number (see previous section).

Hot Key Navigation can be used when in OSD Mode (see next section)

OSD Operation

Hot Key Operation under OSD

Hotkey navigation can be used under OSD mode. To hotkey select a port from the OSD, do the following:

1. Press either Left [Ctrl] or Right [Ctrl] twice to access the OSD Main Menu.

   Note: 1. In OSD, when you are at the Main Menu you can key in the Port ID for the computer you wish to access without first having to press the [Ctrl+Ctrl] combination.

   2. You can optionally change the hotkey to the Scroll Lock key (see F6, below), in which case you would press [Scroll Lock] [Scroll Lock].

2. From the OSD Main Menu, key in the Port ID for the computer you wish to access (see Port ID Numbering, above, for details), then press [Enter].

   The console now controls the PC that you have selected, and the OSD automatically closes.

When you key in the Port ID, note the following:

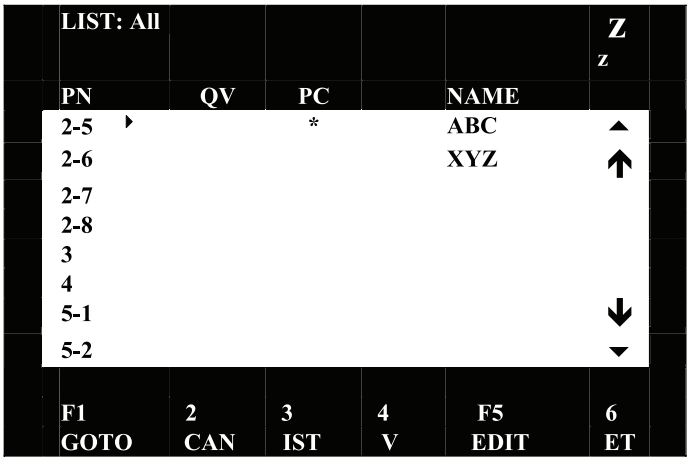
- You must key in the Port ID and press [Enter] within 1 second for each keypress after pressing the Left [Ctrl]+[Alt]+[Shift] or Right [Ctrl]+[Alt]+[Shift] keys sequentially.
- Number keys must be pressed from the regular keyboard; not from the numeric keypad.
- The keys must be pressed and released one key at a time.
- If you submit an incorrect Port ID, an error message displays, and you are returned to the OSD Main Menu.

OSD Overview

On Screen Display (OSD), provides a menu driven interface to handle the PC switching procedure. While Hot Key switching still works, using OSD is a great deal more convenient - especially in large, daisy chained installations.

All operations start from the OSD Main Menu. To pop up the Main Menu, tap either of the Ctrl keys twice:

Note: You can change the hotkey to the Scroll Lock key (see F6 below), in which case you would press [Scroll Lock] [Scroll Lock].



- OSD always starts in List view, with the highlight bar at the same position it was in the last time it was closed.
- From the Main Menu, you can go directly to any port by keying in [Ctrl]+[Alt]+[Shift], then the Port ID Number and pressing [Enter].

  Note: With this method, although access switches to the port you just specified, the highlight bar on the OSD screen doesn't move

OSD Navigation

- [Esc] cancels the current selection, or dismisses the current menu and moves back to the menu one level above. If you are at the highest menu level, it deactivates OSD.
- Use the Up and Down Arrow Keys to move up or down through the list one line at a time
- Use [Pg Up] and [Pg Dn] to move up or down through the list one screen at a time
- Click on ▲ ▼ to move up or down through the list one line at a time
- Click on ↑ ↓ to move up or down through the list one screen at a time
- To activate a port, move the Highlight Bar to it then press [Enter].
- After executing any action, you automatically go back to the menu one level above.

OSD Overview

OSD Main Menu Headings:

PN	Lists the Port ID numbers (Station Number – Port Number) for all the CPU Ports on the installation. To access a particular PC, use the Navigation Keys to move the Highlight Bar to the desired location and then press [Enter].
QV	Ports that have been selected for Quick View Scan Mode (see F2 below and F4 on page 11) are identified by an arrowhead in this column.
PC	Lists all the PCs that are Powered On and are On Line.
NAME	If a port has been given a name (see F5 on page 11), the name appears in this column.

The Function Keys:

Function Keys bring up submenus that are used to configure and control the OSD.

- **F1 GoTo:**

  Pressing [F1] allows you to switch directly to a port by the following methods:

  a) Move the Highlight Bar to the desired port and press [Enter].
  b) Key in the Port ID or Name, then press [Enter].

  Note: GoTo narrows the list of available choices as you type the name. For example, if the first letter you type is "a", the list only displays those ports whose names begin with "a". If the next letter you type is "b", the list is further narrowed down to only those ports whose names begin with "ab", etc.

  To return to the OSD Main Menu without making a choice, press [Esc].

- **F2 Scan:**

  Pressing [F2] initiates the Quick View Scan Mode, in which the OSD cycles through all the ports that have been selected for Quick View Scanning (see F4 on page 11), and displays each one for the amount of time set with the Set Scan Duration function (see F6 on page 11). When you want to stop at a particular location, press any key to stop scanning.

  Note: 1. If the scanning stops on an empty port, or one where the computer is attached but is powered Off, the monitor screen will be blank, and the mouse and keyboard will have no effect. To recover, key in the Hot Key sequence (see Hot Key Selection, above), for any Port ID that has an active PC attached.

  2. As the OSD cycles through the selected ports, an S appears in front of the Port ID display as each computer is accessed to indicate that the computer is being accessed under Quick View Scan Mode.

- **F3 List:**

  Pressing [F3] brings up a submenu that lets you control the ports which the OSD lists:

Choice	Meaning
All	Lists the Port ID Numbers and Names (if names have been specified, see F5 on page 11) of all the ports in the installation.
QView	Lists only the ports that have been selected for Quick View scanning (see F4 on page 11).
Powered On + QView	Lists only the ports that have been selected for Quick View scanning (see F4 on page 11) and that have their attached PC Powered On.
QView + Name	Lists only the ports that have been selected for Quick View Scanning (see F4 on page 11), and have been assigned names (see F5 below).
Name	Lists only the ports that have been assigned names (see F5 on page 11).
Powered On	Lists only the ports that have their attached PCs powered on.

To make a choice, move the Highlight Bar to your selection, then press [Enter]. The icon that appears before the choice indicates the current selection.

Note: 1. You can access any port on any list by using the Navigation Keys to move the Highlight Bar to it, then pressing [Enter].

2. If you select a port that does not have a PC attached to it, or if the attached PC is powered Off, the OSD will still switch to it, and will not show an error.

- **F4 QV:**

  Broaden or narrow the number of ports that get scanned by using the QV (Quick View Scan) function. [F4] is a toggle that selects or deselects the currently highlighted port for the Quick View Scan function (see F2 on page 10). To select/deselect a port for QV:

  1. Use the Up and Down Arrow Keys to move the highlight bar to the port.
  2. Press [F4].

  An arrowhead in the QV column indicates when a port has been selected for Quick View Scanning.

- **F5 Name:**

  Every port can be named. The Name function allows you to name (or rename) the currently highlighted CPU Port. To edit a Port Name:

  1. Use the Navigation Keys to move the highlight bar to the port you want (you can use the F3 List function to broaden or narrow the port selection list).
  2. Press [F5].
  3. Key in the new Port Name.

     The maximum number of characters allowed is 15. Legal characters include:

     - All alpha characters: a - z; A - Z
     - All numeric characters: 0 - 9
     - +, -, /, :, ., and Space

     Case does not matter; OSD displays the Port Name in all capitals no matter how they were keyed in.
  4. Press [Enter] to have the change take effect or press [Esc] to abort.

- **F6 Set:**

  [F6] allows you to configure the OSD settings. To change a setting, use the Up and Down Arrow Keys to move the highlight bar to it, then press [Enter]. On the submenu that appears next, move the highlight bar to your desired choice and press [Enter]. An icon appears before the choice to indicate that it is the currently selected one.

OSD Overview

The settings are explained in the table below:

Setting	Function
Channel Display Mode	Selects how the Port ID is displayed. There are three choices: Number plus the Name (PN + NAME), Number alone (PN) or Name alone (NAME).
Channel Display Duration	Determines how long a Port ID is displayed. There are two choices: 3 seconds and always on.
Channel Display Position	Allows you to position the Port ID on the screen. After you highlight this item and press [Enter], the menu disappears and the port ID is displayed. Use the arrow keys, Pg Up, Pg Dn, Home and 5 (on the numeric pad with the Num Lock off) to position the port ID display then press [Enter] to lock the position and return to the Set Submenu.
Scan Duration	Determines how long the display dwells on each Port when it cycles through the selected Ports in the Quick View Scan Mode. The available options are: 3, 5,10, 15, 20, 30, 40 and 60 seconds.
OSD Activating Hotkey	Selects which Hotkey combination will activate the OSD function: [Ctrl] [Ctrl] or [Scroll Lock] [Scroll Lock]. The default is the Ctrl key combination, but this may conflict with programs running on the computers, in which case, the Scroll Lock option should be selected.
Set Password	Allows you to set a password in order to control access to Locking/Unlocking the Console (see the OSD Security Features section, below, for details).
Clear Name List*	Clears all the Port Names from the Name List. You will be asked to Confirm before the procedure takes place. A message will be displayed while the Names are being cleared. Once the Names have been cleared, a message will appear indicating that the procedure was completed successfully.
Restore Default Values*	Clears all the Settings from the memory and returns the unit to the factory settings. You will be asked to Confirm before the procedure takes place. A message will be displayed while the Settings are being cleared. Once the Settings have been cleared, a message will appear indicating that the procedure was completed successfully.
Lock Console*	Locks / Unlocks the Console. When the Console is locked, only the current monitor screen displays. Attempts to input information from the console have no effect; attempts to switch to a different port, either from the Console or by pressing the manual switches, have no effect either. The only way to regain access to the computers is by Unlocking the Console. If a password has been set, you must provide the password in order to Lock / Unlock the Console. If no password has been set, pressing [Enter] will Lock / Unlock the Console.

** If a password has been set, these settings require you to supply a proper password in order to access them. See the OSD Security section, below, for details.*

Factory Default Settings:

The factory default settings are as follows:

Setting	Default
Display Duration	Always On
Display Mode	The Port Number plus the Port Name
Scan Duration	3 Seconds

OSD Security Features

In order to prevent unauthorized access to the computers, OSD provides a password security feature. If a password is set, the OSD will request that the user first specify the password. To set a password:

1. Highlight this item, then press [Enter}.

   You are presented with a screen that allows you to key in your password. The password may be up to 8 characters long and can consist of any combination of numbers and letters (A to Z and 0 to 9).

2. Key in the new password, then press [Enter].

   You will be asked to key the password in again, in order to confirm that it is correct.

3. Key in the new password again, then press [Enter].

   If the two entries match, the new password is accepted and the screen displays the following message: 'SET PASSWORD OK'.

   If the entries do not match, the screen displays the message 'PASSWORD NOT MATCH' in which case you must start again from the beginning.

   Note: To modify or delete a previous password, access the Password function as in Step 1 above, then use the backspace or delete key to erase the individual letters or numbers.

Appendix

KVM Switch - Computer Connection Table

The following table indicates the relationship between the number of KVM Units and the number of PCs that they control:

KVM	PCs
1	8
2	8 – 15
3	15 – 22
4	22 – 29
5	29 – 36
6	36 – 43
7	43 – 50
8	50 – 57
9	57 – 64
10	64 – 71
11	71 – 78
12	78 – 85
13	85 – 92
14	92 – 99
15	99 – 106
16	106 – 113
17	113 – 120
18	120 – 127
19	127 - 134

KVM	PCs
20	134 – 141
21	141 – 148
22	148 – 155
23	155 – 162
24	162 – 169
25	169 – 176
26	176 – 183
27	183 – 190
28	190 – 197
29	197 – 204
30	204 – 211
31	211 – 218
32	218 – 225
33	225 – 232
34	232 – 239
35	239 – 246
36	246 – 253
37	253 – 260

KVM	PCs
38	260 – 267
39	267 – 274
40	274 – 281
41	281 – 288
42	288 – 295
43	295 – 302
44	302 – 309
45	309 – 316
46	316 – 323
47	323 – 330
48	330 – 337
49	337 – 344
50	344 – 351
51	351 – 358
52	358 – 365
53	365 – 372
54	372 – 379
55	379 – 386

KVM	PCs
56	386 – 393
57	393 - 400
58	400 – 407
59	407 – 414
60	414 – 421
61	421 – 428
62	428 – 435
63	435 – 442
64	442 – 449
65	449 – 456
66	456 – 463
67	463 – 470
68	470 – 477
69	477 – 484
70	484 – 491
71	491 – 498
72	498 – 505
73	505 – 512

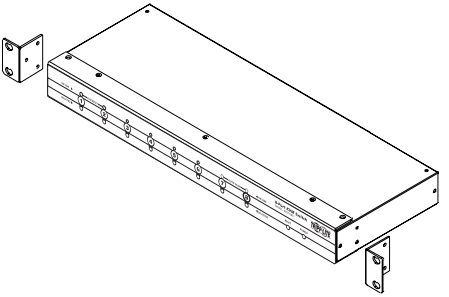
Appendix

Mounting and Stacking

For convenience in large installations, the unit is supplied with the necessary hardware for it to be rack mounted in a 19" (1U) system rack, or stacked.

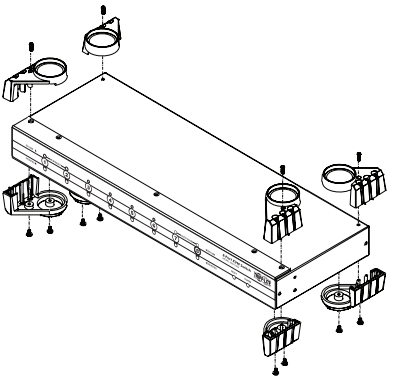
For Rack Mounting:

1. Screw the mounting brackets into the sides of the unit.
2. Slide the unit into the rack and secure it to the rack.



For Stacking:

1. Screw the stacking brackets into the corners of the unit. Note that there is a top and bottom half to each bracket. The bottom half has a concave surface and two screw holes; the top half has a convex surface and one screw hole.
2. Line up the four bottom brackets of the top unit with the four top brackets of the bottom unit.
3. Fit the top unit into place.



Troubleshooting

Symptom	Possible Cause	Action
Erratic Behavior	Unit not receiving power under self-powered operation	Use the power adapter that was provided with the units to provide external power.
Pressing the Hot Keys does not get a response	The connection from the selected port to the target PC has been broken or the PC is turned OFF.	Check the Online LED for the selected port. If it is not lit: 1. Manually press one of the Select switches to connect to a PC that is powered ON. 2. Check the cables to make sure all are properly connected. 3. If the desired PC is OFF, power it ON
	Improper keyboard reset	1. Reset the keyboard (and mouse) by simultaneously pressing and holding Switches 1 and 2 on the First Stage KVM unit for 3 seconds. Do as often as necessary. 2. Unplug the connector from the Console Keyboard Port, then plug it back.
	Improper KVM switch reset	Turn OFF all KVM Switches and wait 5 seconds before turning them back ON. *Note: If the unit is operating in the Self-powered mode (without the optional Power Adapter), you must unplug the power cord of any PC that is connected to it that has the Keyboard 'Power On' function, otherwise the switch still draws power from the PC.*
	Incorrect keying in the Port ID.	After invoking the hotkey function with [Ctrl]+[Alt]+[Shift] combination, be sure to key in the Port ID and press [Enter] within 1 second for each key.
Mouse is not responding	Improper mouse reset.	1. Reset the keyboard and mouse by simultaneously pressing and holding the Select Switches 1 and 2 on the First Stage KVM unit for three seconds. 2. Unplug the mouse connector from the Console Mouse port, then plug it back in.

Specifications

Power Consumption		DC9V 1.08W (max)
PC Connections	Direct	8
	Max. (via Daisy Chain)	512
Port Selection		Front Panel Switches Hot Keys On Screen Display (OSD)
LEDs	Power	1 (Orange)
	On Line	8 (Orange)
	Selected	8 (Green)
Connectors	Console	1 x mini-DIN 6 Female (PS/2 Style Mouse) 1 x mini-DIN 6 Female (PS/2 Style Keyboard) 1 HDDB15 Female (standard VGA/SVGA)
	CPU Ports	8 x mini-DIN 6 Female (PS/2 Style Mouse) 8 x mini-DIN 6 Female (PS/2 Style Keyboard) 8 HDDB15 Male (standard VGA/SVGA)
Scan Interval (OSD Selection)		3, 5, 10, 15, 20, 30, 40, 60 seconds
Operating Temperature		41 – 104° F
Storage Temperature		-4 – 140° F
Humidity		0 – 80%RH, Noncondensing
Enclosure		Metal
Weight		6.25 lbs
Dimensions		19" x 6" x 1¾" (19" 1U)

FCC Radio / TV Interference Notice

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. The user must use shielded cables and connectors with this product. Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

1-YEAR LIMITED WARRANTY

TRIPP LITE warrants its products to be free from defects in materials and workmanship for a period of one (1) year from the date of initial purchase. TRIPP LITE's obligation under this warranty is limited to repairing or replacing (at its sole option) any such defective products. To obtain service under this warranty, you must obtain a Returned Material Authorization (RMA) number from TRIPP LITE or an authorized TRIPP LITE service center. Products must be returned to TRIPP LITE or an authorized TRIPP LITE service center with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. This warranty does not apply to equipment which has been damaged by accident, negligence or misapplication or has been altered or modified in any way.

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WARRANTY REGISTRATION

Visit www.tripplite.com/warranty today to register the warranty for your new Tripp Lite product. You'll be automatically entered into a drawing for a chance to win a FREE Tripp Lite product!*

* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.

The policy of TRIPP LITE is one of continuous improvement. Specifications are subject to change without notice.

This product designed and engineered in the USA.

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